

20000827.qrp v01_n926.qrl.20000827

Date: Sun, 27 Aug 2000 19:03:05 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1926

QRP-L Digest 1926

Topics covered in this issue include:

- 1) [78152] BUBBA
by "Jay Henson" <jbhenson@zebra.net>
- 2) [78153] Bubba: 2 more things
by "John L. Sielke" <w2agn@pobox.com>
- 3) [78154] FS items
by Richard Arland <k7sz@epix.net>
- 4) [78155] TICK Rev 102 Trouble Shooting
by "Ken Kirkley" <ogbc@mindspring.com>
- 5) [78156] Bubba: W7TA0 summary
by Bruce Grubbs <n7ceeqr@earthlink.net>
- 6) [78157] Re: Possible Equipment Sale Scam?/Reply
by RangerSF5@aol.com
- 7) [78158] CONTEST - BUBBA
by n5ib@juno.com
- 8) [78159] 2n3553 /b.g. micro /argonaut ?
by James Skalski <jskalski@localnet.com>
- 9) [78160] 2N3553 sub
by sigcom@juno.com
- 10) [78161] Re: Bubba: 2 more things
by Bob Nielsen <nielsen@oz.net>
- 11) [78162] Re: Possible Equipment Sale Scam?/Reply
by "Joe Spencer" <kk5na@quadj.com>
- 12) [78163] Bubba Bust
by "James R. Duffey" <jamesd1@flash.net>
- 13) [78164] K7GT/P
by "Dan Trigilio" <danjt@cruzio.com>
- 14) [78165] Radial and Coax burying techniques [long]
by "Andy Meng" <n8mx@yahoo.com>
- 15) [78166] Donations for: Jr/Sr High School QRP Elmer 101 Ham Radio Class and ARC?
by "Tom Scott" <TomRScott@Sterlink.net>
- 16) [78167] FS- Sierra
by "Jim Crooke" <crooke@prodigy.net>
- 17) [78168] The adventure continues (The K1 ascent)
by Jeff Grudin <grudin@vdb.com>
- 18) [78169] Colorado's Mt Sherman on the air
by Gary Slagel <gdslagel@yahoo.com>

- 19) [78170] Neat Dipole
by ARDUJENSKI@aol.com
- 20) [78171] FS- Sierra spoken for
by "Jim Crooke" <crooke@prodigy.net>
- 21) [78172] QRP Tuner
by Levent Sasmazel <levent@netlabs.net>
- 22) [78173] QRP in ABQ/BUBBA
by "Paul Harden, NA5N" <na5n@rt66.com>
- 23) [78174] QRP HOMEBREWER HOT OFF THE PRESS
by George Gingell <k3tks@u1.abs.net>
- 24) [78175] Fox- Reminder today 2000-2200z - NW7DX
by BenNW7DX@aol.com
- 25) [78176] FOX: Final Log, N1FN Hunt 15
by "Marshall Emm" <mgemm@mtechnologies.com>
- 26) [78177] AL7FS could get used to this.
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
- 27) [78178] . . . QRP Tuner
by John R Kirby <n3aaz-qrp@juno.com>
- 28) [78179] Re: Radial and Coax burying techniques [long]
by Dave Marling <dbm@klis.com>
- 29) [78180] Re: West Virginia
by "Rich Clemens" <clemens@wvwc.edu>
- 30) [78181] N4BP BUBBA 2000
by Bob Patten <n4bp@bc.seflin.org>
- 31) [78182] Re: QRP Tuner
by "Joe Spencer" <kk5na@quadj.com>
- 32) [78183] New free RTTY program - QRPp YES!
by Jim Hale <kj5tf@yahoo.com>
- 33) [78184] RE: QRP Tuner
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 34) [78185] RE: Radial and Coax burying techniques [long]
by "AI2Q Alex" <ai2q@ispchannel.com>
- 35) [78186] Re: Radial and Coax burying techniques
by "Nick Yokanovich" <k3ny@toad.net>
- 36) [78187] QRP Tuner Kit
by "Doug Hendricks" <ki6ds@dospalos.org>
- 37) [78188] Need another CMOS Keyer
by "Karl F. Larsen" <k5di@zianet.com>
- 38) [78189] RE: QRP Tuner
by Steve Yates <aa5tb@yahoo.com>
- 39) [78190] Re: Radial and Coax burying techniques
by "Scott Hotchkiss" <w4pj@bellsouth.net>
- 40) [78191] Basil has left the building!
by "David Hurley,n2zhy" <n2zhy@amsat.org>
- 41) [78192] AL7FS: New Ham in Alaska response (long)
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
- 42) [78193] Re: Radial and Coax burying techniques [long]
by "Bob Tellefsen" <n6wg@earthlink.net>

- 43) [78194] Re: Low Noise Op Amps
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 44) [78195] Re: Need another CMOS Keyer
by "Doug Hendricks" <ki6ds@dospalos.org>
- 45) [78196] Re: BUBBA: Fun
by Bob Hightower <nk7m@extremezone.com>
- 46) [78197] Help with part ID
by "Rod, N0RC" <n0rc@qsl.net>
- 47) [78198] Re: Radial and Coax burying techniques [long]
by david fouchey <dafouchey@home.com>
- 48) [78199] OT - QRP ops and Submarines
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
- 49) [78200] Thanks to Everyone!
by =?iso-8859-1?Q?=22Teresa_Nunes=2C_KL=D8WW=22?= <kl0ww@arrl.net>
- 50) [78201] Re: Radial and Coax burying techniques [long]
by "Dan W. Dooley" <dandooley@pipeline.com>
- 51) [78202] Noise 101 Was Re: Low Noise Op Amps (long)
by "Robert P. Okas" <vintage@best.com>
- 52) [78203] Re: [Elecraft] Re: [TenTec] RFI from GSM phone into 705 mike?
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 53) [78204] Re: [Elecraft] Re: [TenTec] RFI from GSM phone into 705 mike?
by Bob Nielsen <nielsen@oz.net>
- 54) [78205] IC720a owners/tech manual
by "Michael Herman" <kc9nf@hotmail.com>
- 55) [78206] Re; SMK 1
by "C L Barnett" <KB4CUQ@worldnet.att.net>
- 56) [78207] Misc items FS
by "Ken Simpson" <W8EK@fdt.net>
- 57) [78208] WTT: resistor networks
by "Rod, N0RC" <n0rc@qsl.net>
- 58) [78209] PSK31 & Baycom BP-2M ?
by Rick McKee <kc8aon@juno.com>
- 59) [78210] FOX one call does it all!
by "Rod, N0RC" <n0rc@qsl.net>
- 60) [78211] FOX: Calling CQ
by "John L. Sielke" <w2agn@pobox.com>
- 61) [78212] FOX: Calling CQ 14057.46
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 62) [78213] FOX: The Drought Abates...
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 63) [78214] A Couple of Questions
by "Jason Milldrum" <thecabal@mindspring.com>
- 64) [78215] Fox bagged in LA
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 65) [78216] FOX- foxfree here in the NE
by John Wagner <john@neknetwork.com>
- 66) [78217] W2AGN Also Notable BubbaContact
by "James R. Duffey" <jamesd1@flash.net>

67) [78218] FOX - (Long) Saved by the 17 foot high dipole...
by Lew Paceley <lew@paceley.com>

Date: Sat, 26 Aug 2000 18:11:06 -0500
From: "Jay Henson" <jbhenson@zebra.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [78152] BUBBA
Message-ID: <000301c00fb2\$eaf82460\$350f0cd1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

GE to everyone,

I decided that today would be a good day to stay inside, be cool, and drink moocho refreshments while taking part in BUBBA. If the Army taught me one thing, it was to utilize all of the available comforts of life while you can (HEE HEE). Band conditions were either poor or bad. There were lots of stations but everyone was very weak. 10 was a no show. I tried a couple of CQ's but nada. 15 was marginally better with 1 contact in AZ. 40 was very noisy with nothing heard.

20 was the band of choice locally. Stations would be Q5 one second and gone the next. All in all, I had a good time. Strongest signal belonged to Bruce, AA5B. Really booming into lower AL. We tried to quickly QSY to 15 and connect but nothing was heard on my end. The highest temp was Bob, Nk7M, with 111F. Some will tell you that it's a different kind of heat, a dry heat. WRONG! 111F is still 111F regardless of how dry it is. After 8 months of living in the desert of Saudia Arabia, hot is hot is hot.... I'm glad it was you Bob and not me. I did work John, W2AGN. What a classy call sign!

It was fun! After some liquid cheer, I was able to ignore the bad condx and start enjoying what was there.

My best to everyone and thanks to those I was able to catch in BUBBA.

See you next year.....

See you on the radio.

Jay

AJ4AY Mobile, AL

QRP-L #1372 ARCI #8131 SOC#220 FP#115

Nothing to ju

Date: Sat, 26 Aug 2000 19:51:52 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: qrp-l@lehigh.edu
Subject: [78153] Bubba: 2 more things
Message-ID: <XFMail.000826195152.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

One, a question. Does each DX country count as a separate multiplier, or are they all lumped under "dx?"

And...WHERE WAS DOC, K0EVZ???

Doesn't seem like a complete contest without working him.

/\ /\ /\ /\ /\ John L. Sielke w2agn@pobox.com w2agn@qsl.net
(W | 2 | A | G | N) NJ Grid:FM29LN <http://www.qsl.net/w2agn>
_/ _/ _/ _/ _/ NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
X-N4JS, W4MPC, W7JEF, K3HLU G-QRP #9544 NorCal CQC AKQRP QCWA FISTS #2781
fpQRP #121 SOC #390 Elecraft K2 #00023

Date: Sun, 27 Aug 2000 00:13:22 -0400
From: Richard Arland <k7sz@epix.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [78154] FS items
Message-ID: <39A89562.F6083B20@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It's shack cleaning time....again. With my smaller digs, it has become apparent that I need to unload some gear just to be able to walk into the shack!

The following items are for sale. I will ship for the prices indicated. Insurance is included. All items come with manuals and (when applicable) power and adaptor cords.

1. Radio Shack 25 watt 10 meter AM/SSB/FM transceiver (the one in the current catalog). Excellent condition. \$115.00

2. Ten-Tec 160-10 meter SWR/Power meter (this is the one that appeared in QRP Power last month). Excellent conditon. \$40.00

3. MFJ-1278B Multimode Data Controller. Mint condition. \$175.00

4. MFJ-781 DSP filter for Multimode Data Controllers. Mint condition. \$100.00

If you want to buy 3 & 4 together, I'll sell the pair for \$250.00 including shipping.

Private e-mails only, please.

73 Rich K7SZ

Date: Sat, 26 Aug 2000 20:35:53 -0400
From: "Ken Kirkley" <ogbc@mindspring.com>
To: "QRP List Server" <qrp-l@lehigh.edu>
Subject: [78155] TICK Rev 102 Trouble Shooting
Message-ID: <003d01c00fbe\$c2cea7a0\$aed6f7a5@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Am just about finished with my FB40 and have found that my TICK keyer has quit working. Is there a simple way to check the IC to determine if it has gone south? Was working great before I added the AMP components, but don't see any correlation between the two (maybe I am blind to the obvious). Am thinking that a static discharge may have gotten the IC.

73 & God Bless,
Ken/N04D

Date: Sat, 26 Aug 2000 17:37:59 -0700
From: Bruce Grubbs <n7ceeqr@earthlink.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [78156] Bubba: W7TA0 summary
Message-ID: <4.3.2.7.0.20000826173652.0340a100@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

W7TAO Summary Bubba 2000

Location: Saddle Mountain, Coconino National Forest, 8,880 feet, DM45dk
Operators: Scott Hugin, K7DHF; Bruce Grubbs, N7CEE
Power: 5 watts
Highest operating temperature: 70 degrees F
Relative humidity: 97 percent (Flagstaff NWS office daily average)
NWS heat index: 71.6

Score= 19 x 13 x 1 x 2 x 71.6 = 35370.4
(Contacts x SPC x power x category x heat index)

Soapbox:

Scott and I operated from our favorite field site near Flagstaff, Saddle Mountain. Thunderstorms threatened all during the setup and contest period, but never came within 10 miles, luckily. Our station consisted of an Elecraft K2 with ATU, a 4:1 balun, and a 40 vertical supported on a DK9SQ mast and fed with twinlead. We also had an end-fed 40m wire with counterpoise, but didn't use it. Conditions were minimal on 20 and 15- most signals were not even S1. 40 was better but had little activity. We put the beacon mode to good use on the keyer, letting it pound out CQ TEST while we threw sticks for the dog. As always, a good time. Thanks to AB7OA and the Arizona ScQRPions for putting on a fine QRP contest.

72

Bruce N7CEE
n7ceeqrp@earthlink.net

Date: Sat, 26 Aug 2000 20:52:46 EDT
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [78157] Re: Possible Equipment Sale Scam?/Reply
Message-ID: <3e.33283b.26d9c05e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 8/26/00 5:23:52 PM Eastern Daylight Time, zikot@erie.net writes:

<<

Does anyone have a phone number or updated email address for KG2JF, Gerald P. Albertin?

>>

He goes by the name of Jerry also.

He tried to scam me but I had gut feelings and told him I mailed the MO.
I didn't.

Three days later he told me he sold the rig and not to send anything.

He also burnt another member on this list for \$100.00.

I posted this here for other QRP members.

Don't deal with this person.

He's bad news.

I have some letters to prove it.

Bob

WA2HOQrp <tm>

<< Sorry Bob the BLT tuner went fast....Regarding the 9020 sent me your
check for \$125 and I'll get the rig out to you.

Address here is

Jerry Albertin

2530 Route 67

Amsterdam, N.Y. 12010

n a message dated 8/14/00 7:20:23 PM Eastern Daylight Time, kg2jff@juno.com
writes:

<< Bob oh Bob oh Bob. it is like old times. You are jerking my around once
again. DO NOT MAIL ANYTHING TO ME. I have another person who wants the
rig. I wanted to give it to you but you said no and your emails are like
the past: delay, delay, delay.

n a message dated 8/10/00 9:28:26 PM Eastern Daylight Time, kg2jff@juno.com
writes:

<<

Bob, I have upset you and I appolize. Our dealings in the past are in
the past. This station is going QRT and I would like to give this rig to
you as a gift. Please send me your address.

>>

Jerry,

I just confused about past dealings.

I just want to know what I did wrong.As for the rig,
from this letter I assume you still have it.

I don't want a donation.

If I was really down and out like some hams and no money,

Yes I would take it but I have other QRP rigs.

However I was always a MFJ nut and made many mods on the rig.

Sure I had a minor stroke and I lost a lot of money from not being able to do
A/C work this summer but i'm back to 90% normal.

So i'm no different then most.

I also got sick like others do.

Thats life and I keep praying for full healing.

So please send the address.

I assume you'r good under QRZ but I alway like to confirm.
My mailing address is
BOB LECH
PO BOX 281
BORDENTOWN,NJ 08505.
For 35 cents you can get a confirmed delivery ticket on the box.
73
Bob
WA2HQrp <tm>

Date: Sat, 26 Aug 2000 20:56:50 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [78158] CONTEST - BUBBA
Message-ID: <20000826.195259.4559.2.N5IB@juno.com>

After a nice lunch of cajun chicken & sausage jambalaya, I managed about 2 hours on the patio before slipping away with wife and daughter to visit my brand new, just arrived Thursday, nephew Jeremy.

Worked just about everyone I heard, but didn't hear many. 11 Q's on 20 and just 2 on 15. I went up to 15 several times and CQed, with no takers. But the two I worked on 15 were booming in from AZ. As luck would have it they were only a couple of hundred Hz apart and I think I QRMed NQ7RP while working K7RE - not for nothing am I SOC #159 :^)

NK7M's report of 111 degrees sent me straight in to the kitchen for another cool one.

The mercury topped out at 98 in the shade on the patio, with humidity at 60%. I've got photos to prove it! Will post some to my web page probably Monday. Used the K-2, MFJ-971, MFJ paddles, and the 40 m horizontal loop at 15 ft. Logging with the PQET Plus and Log-EQF. All running from a 38 A-hr gel-cel. Beverage of choice was cranberry juice cocktail on the rocks.

Highlights: the Head SOC N4BP, the Chief ScQRPions NQ7RP on 20 and 15, Doctor MHz -er Mc -KK6MC/5
Score = 40675.2

I too looked vainly for K0EVZ, but no Doc to be heard

BTW - Jeremy is a cutie - 7 lb 6 oz, 20.25 in, looks like he'll throw right and bat left - a natural

See y'all tomorrow in the Fox Hunt

72

Jim N5IB

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<http://dl.www.juno.com/get/tagj>.

Date: Sat, 26 Aug 2000 21:18:14 -0400 (EDT)

From: James Skalski <jskalski@localnet.com>

To: qrp-l@Lehigh.EDU

Subject: [78159] 2n3553 /b.g. micro /argonaut ?

Message-ID: <Pine.LNX.4.20.0008262021340.603-100000@valhalla.valhalla.buffalo.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello,

Did anyone purchase the 2n3553 subs from bg micro?

I bought them some time ago and I forgot what house marked numbers are on the ones that they sent. I want to be sure to put in the right ones.

They will replace the PT3647 transistors in an Argonaut 505 after I change some turns on the toroids. The 2n3553 should be a direct sub for the PT3647 used in the Argonaut 509. Since I am putting them in a 505 I think I may have to change the turns on the toroids to match those on the 509 pcb. Otherwise the amp boards appear to be the same in both the 505 and 509.

73,

Jim n2go

Date: Sat, 26 Aug 2000 18:24:01 -0700

From: sigcom@juno.com

To: qrp-l@Lehigh.EDU

Subject: [78160] 2N3553 sub

Message-ID: <20000826.182402.-3952579.1.sigcom@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Jim and group,

The transistor from B.G. Micro is the house marked RCA 4013 which was made for E.F. Johnson and is their part number 576-0004-013 (hence the '4013').

This transistor was used in EFJ land mobile equipment and is good to VHF. Pretty darn good part for \$0.99!

73.....Steve, WB6TNL Oxnard, CA USA
The Scrounger "snort rosin"

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<http://dl.www.juno.com/get/tagj>.

Date: Sat, 26 Aug 2000 18:31:12 -0700
From: Bob Nielsen <nielsen@oz.net>
To: "John L. Sielke" <w2agn@pobox.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78161] Re: Bubba: 2 more things
Message-ID: <20000826183112.A7688@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

On Sat, Aug 26, 2000 at 07:51:52PM -0400, John L. Sielke wrote:
> One, a question. Does each DX country count as a separate multiplier, or are
> they all lumped under "dx?"

Each SPC -- State, (Canadian) Province or DX country -- counts as a separate multiplier.

--
Bob Nielsen, N7XY
Bainbridge Island, WA
nielsen@oz.net
<http://www.oz.net/~nielsen>

Date: Sat, 26 Aug 2000 20:36:22 -0500
From: "Joe Spencer" <kk5na@quadj.com>
To: <RangerSF5@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78162] Re: Possible Equipment Sale Scam?/Reply
Message-ID: <00d601c00fc7\$35b162a0\$06010180@joe>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have different information.

I purchased an item from Jerry during this time and from the same sale listing i believe.

I had no problem, I sent him a check and he sent the gear right to me. It was in excellent condition just as he described.

Joe KK5NA

----- Original Message -----

From: <RangerSF5@aol.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Saturday, August 26, 2000 7:52 PM
Subject: Re: Possible Equipment Sale Scam?/Reply

> In a message dated 8/26/00 5:23:52 PM Eastern Daylight Time,
zikot@erie.net
> writes:
>
> <<
> Does anyone have a phone number or updated email address for KG2JF,
> Gerald P. Albertin?
> >>
> He goes by the name of Jerry also.
> He tried to scam me but I had gut feelings and told him I mailed the M0.
> I didn't.
> Three days later he told me he sold the rig and not to send anything.
> He also burnt another member on this list for \$100.00.
> I posted this here for other QRP members.
> Don't deal with this person.
> He's bad news.
> I have some letters to prove it.
> Bob
> WA2HOQrp <tm>
>
> << Sorry Bob the BLT tuner went fast....Regarding the 9020 sent me your
> check for \$125 and I'll get the rig out to you.

>
> Address here is
> Jerry Albertin
> 2530 Route 67
> Amsterdam, N.Y. 12010
> n a message dated 8/14/00 7:20:23 PM Eastern Daylight Time, kg2jif@juno.com
> writes:
>
> << Bob oh Bob oh Bob. it is like old times. You are jerking my around once
> again. DO NOT MAIL ANYTHING TO ME. I have another person who wants the
> rig. I wanted to give it to you but you said no and your emails are like
> the past: delay, delay, delay.
> n a message dated 8/10/00 9:28:26 PM Eastern Daylight Time, kg2jif@juno.com
> writes:
>
> <<
> Bob, I have upset you and I appolize. Our dealings in the past are in
> the past. This station is going QRT and I would like to give this rig to
> you as a gift. Please send me your address.
> >>
> Jerry,
> I just confused about past dealings.
> I just want to know what I did wrong.As for the rig,
> from this letter I assume you still have it.
> I don't want a donation.
> If I was really down and out like some hams and no money,
> Yes I would take it but I have other QRP rigs.
> However I was always a MFJ nut and made many mods on the rig.
> Sure I had a minor stroke and I lost a lot of money from not being able to
> do
> A/C work this summer but i'm back to 90% normal.
>
> So i'm no different then most.
> I also got sick like others do.
> Thats life and I keep praying for full healing.
> So please send the address.
> I assume you'r good under QRZ but I alway like to confirm.
> My mailing address is
> BOB LECH
> PO BOX 281
> BORDENTOWN,NJ 08505.
> For 35 cents you can get a confirmed delivery ticket on the box.
> 73
> Bob
> WA2HOQrp <tm>

Date: Sat, 26 Aug 2000 20:34:14 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [78163] Bubba Bust
Message-ID: <B5CDDA45.23CA%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Propagation stunk here. I worked about 20 stations in 3 hours of operating on 40 M and 20 M. Temperature was 91 F. Lots of work for not much return.

I worked most of the people I heard, but I did not hear many. Lots of QSB and some stations would go from S5 to unreadable during a QSO.

I used my OHR Classic to a 40M/20M inverted Vee at 20 ft. Solar power was used. I operated from Gallisteo dam which is considerably elevated above surrounding terrain. Under normal conditions I should have worked 60 to 75 QSOs from this location.

Notable Stations worked included; W7TA0, the only signal heard from AZ, N5TW, N5IB, KI0KY, N9AW, WD9IFF, and AA5B.

AA5B had a good signal (line of sight) on 40 M, and I worked him there. He was weak on 20 M, but he could not hear me on that band.

N4BP is usually a good indicator of how the band is doing, and he was weak, so I knew the band was bad. I spent a lot of time trying to work Bob, but he gave up on me rather quickly.

I spent the morning at the Duke City Hamfest where Paul, NA5N, and I gave a short QRP forum. About 20 people attended which is good for NM. Jay WA5WHN and Gary, W5BI set up at the hamfest and operated Bubba. Paul and Jan, N0QT, also operated from the hamfest and I worked them all.

Maybe FYB0 will be better. - Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 26 Aug 2000 19:59:07 -0700
From: "Dan Trigilio" <danjt@cruzio.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>

Subject: [78164] K7GT/P
Message-ID: <000901c00fd2\$c50d35e0\$2381e3a5@n1dtscomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just worked Allan, K7GT/p on 7041. He is QRP portable from Sequoia Park with a NC 40 running 2 Watts. He wanted everyone to know he is calling CQ right now.

GL es 73, Dan W6DAN
Capitola, CA

Date: Sat, 26 Aug 2000 23:27:58 -0400
From: "Andy Meng" <n8mx@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [78165] Radial and Coax burying techniques [long]
Message-ID: <010501c00fd6\$ccca4580\$0c0da3d0@n8mx>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello all,

I got a GAP Challenger antenna this summer. I assembled it when I got it, and stuck it in the hole for the basketball pole. We have a special plastic sleeve for the pole so it can be removed. This worked OK until my parents wanted the basketball pole to go back up. So last Saturday I dug the hole for the antenna elsewhere in the yard, and today I poured concrete in the remaining two feet (it had a foot of packed dirt in the bottom). Now all that is left is to run the radials and the coax.

Only three 25 ft. radials are required, but I want to bury them. I am worried that with the lawn mower and bicycles going over them they will not last. I want a relatively unintrusive way accomplish burying them, so today I got to work with the spade. I put it in about 6 inches, or as far as I could go if there were roots. Then, while the shovel was still in the slit, I shoved it forward, and pushed the radial (~#24 teflon-insulated wire) down the back of the spade as far as it would go. However, when I got to the end of the radial, I found that it was many feet shorter than the specified 25 ft. This comes from the vertical "waviness" of the wire because the stick only pushes it in the slot every few inches.

First of all, since this wire started out as being 25 feet long, is it OK,

or should I lengthen it so that the end is 25 horizontal feet from the base of the antenna? Next, is there a better way than this to install radials? I have heard of installing a large number of radials, and it would take days to install many radials this way. I looked on the Internet tonight, and it seems that some people use a gas-powered lawn edger to make a nice slice. However, I don't have one of these. Is there another way? I also need to run about 50 feet of RG-8 or 58 coax to the house underground. I may see if I can get some 75ohm hardline from a cable TV company...

I would appreciate any and all opinions on radial and/or coax burying.
Thanks!

72/73,
Andy Meng N8MX ex- KC8KFI Cincinnati, OH
Sophomore at St. Xavier HS
<http://www.qsl.net/n8mx>
FPqrp #8 QRP-ARCI #10085
QRP-L #1813 SOC NorCal
K2 #177

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Sat, 26 Aug 2000 17:55:57 -0700
From: "Tom Scott" <TomRScott@Sterlink.net>
To: "'qrp-l Reflector'" <qrp-l@Lehigh.EDU>
Subject: [78166] Donations for: Jr/Sr High School QRP Elmer 101 Ham Radio Class and ARC?
Message-ID: <000101c00fd9\$eb4ebe20\$7e100f0a@wyle.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I wanted to make this real short, but it got long on me.

No arm twisting here, but I'm just starting a QRP Elmer 101 Ham Radio class at a local Christian Jr/Sr High School, Heritage Christian School in Hillsboro. I've spent a good part of the summer collecting things and am doing pretty well to get things ready. But there are still a few things we could use and the budget (my surplus pocket money) is running thin. I've been encouraged by a couple friends that there are undoubtedly a few of you

who would like to contribute to a cause like this. The parents will be paying a lab fee that basically covers the radio kit, but everything else I'm getting from donations or paying out of pocket.

First an over view of the course.

We're going to take 15 kids who've enrolled (started out to be 8 to 12, but the demand has been great, plus several home schoolers as well it looks like) ranging from 7th through 11th graders from any background, some with soldering experience, some with none and accomplish three main goals:

1. Build a Small Wonder Labs SW+40 radio
2. Build a copper clad straight key or paddle
3. Learn 5WPM code and pass the FCC Element 1 test
4. Learn the Technician written material, FCC Element 2

In short we're going to create 15 new QRP CW hams who've built their first radio themselves and know a thing or two about how it works.

We're going to sort of skim the Elmer 101 Powerpoint slides to get an overview of radio theory, but I'm not going to require mastery of everything there, its sort of extra credit. Then we'll set up an antenna at each of their homes, and their final exam will be to have a QSO from their home. We also plan to take a backpacking trip with the radios at the end of the year and show them how to set up a rig in the field and operate with batteries and solar.

So here's where we're at:

1. I've got radios lined up that we're going to purchase from Dave Benson at SWL who has been very helpful and deserves a lot of credit for supporting efforts like this.
2. I'm going to get Tick 1 keyers for those who would like to learn with paddles (everyone will try out and learn with both).
3. I've got an MFJ 418 code practice box
4. I've got some good study material for making CW contacts (pointers were posted here recently)
5. I've got lots of good powerpoint slides to cover the Elmer 101 material
6. copper clad for making homemade paddles and straight keys, could probably use some more though, some people may want to make enclosures with copper clad and that will wipe me out. Any old keys or paddles of any variety would be welcome of course, but we can probably make do with homemade.
7. I'm going to loan the school my Tektronix 547 with a couple plug-ins for testing and class demonstrations (supervised use only)
8. I'm going to loan my HP 606B and Tektronix 191 signal generators (supervised use only)
9. Elenco LCR 1810 component tester
10. A small frequency counter (forget the brand)
11. I've bought enough basic tools for five sets and am planning on lab teams of 3 working together. Wouldn't mind getting some more soldering

irons. If anyone has any sort of soldering iron/station that is appropriate for soldering a high density QRP board like this would be greatly appreciated.

12. I've got four head band magnifiers, but may pick up some more.
13. I've got four cheap DMM's care of Harbor Freight'
14. Plenty of Solder wick, solder
15. 10 Watt 50 ohm non-inductive power resistors for making up dummy loads

Needs:

1. Soldering irons, soldering stations, stands, tip cleaning flux, etc.
2. Dare I say another component tester would sure be helpful, I've just got one of my own so far
3. Any sort of DMM or VOM
4. Additional Copper Clad
5. Soldering aids
6. Screwdrivers
7. diagonal cutters
8. needle nose pliers
9. BNC connectors in any flavor
10. Coax scraps for antenna feedline where we have difficulty with ladder line
11. Ladder line
12. More Dacron rope for skywires
13. Any Ham radio books for the library, especially would like to have an ARRL Handbook for Radio Amateurs and a copy of the Operators Manual for the ham club shack / science classroom, copies of "Now Your Talking", and wire antenna books.
14. Any morse code study materials, especially the ARRL CDs (the kids all have personal CD players now).
15. Any sort of general coverage receiver that would be useful for testing purposes
16. 1/8" chassis mount stereo phone plug sockets suitable for paddle connection
17. short stereo jumpers with 1/8" to 1/8" phone plugs for paddles

Finally if anyone wants to donate any sort multi-band HF or any sort of VHF gear or HTs for the school's amateur radio club shack, we will find some sort of way to immortalize you, not to mention all donations would get a tax letter.

Please understand this is not meant to be arm twisting, but not everyone can make the time to do this sort of thing, I'm lucky enough to be able to arrange my schedule so I can. So please just look at this as another way you can participate if you'd like to help out. If anyone else would like to do this sort of thing with their school, I'd be happy to lend the benefit of my experiences and help you get started any way I can.

We're going to create at least 15 new licensed hams who will have built

their first radio and learned on QRP and CW. I'll feel real good about that accomplishment!

Thanks for the bandwidth everyone. Please reply off-list with any donations you might have, lets not clog the list here with lots of chatter on the subject. Use the mailing address below.

Thanks very much for your consideration... and sincere 73

- Tom Scott, eEngineering Manager, eBusiness Group

//_/_/_/_/_/_/_/_/_/_/

Wyle Electronics

10300 SW Nimbus Ave #PB

Portland, OR 97223

503-603-1931 - Tel

503-684-6620 - Fax

503-703-2032 -- Cell

KD7DMH

//_/_/_/_/_/_/_/_/_/_/

Date: Sat, 26 Aug 2000 23:16:22 -0500

From: "Jim Crooke" <crooke@prodigy.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [78167] FS- Sierra

Message-ID: <010a01c00fdd\$9018b020\$9da69cd1@n9o018>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I've got a Wilderness Sierra that is excess to my needs. It has the KC-2 panel and the 40 meter module is constructed. There is an unbuilt 20 meter module also. It works fine and I've had a lot of fun with it, but I am not getting out in the field as much as I would like to, so if you would take good care of it, I'll ship it CONUS for \$240

72, Jim WBOHQV

Date: Sun, 27 Aug 2000 08:52:34 -0700

From: Jeff Grudin <grudin@vdbbs.com>

To: qrp-1@lehigh.edu

Subject: [78168] The adventure continues (The K1 ascent)
Message-ID: <39A93942.D1245C97@vdb.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well after a slow start, I had to work and a short emergency trip to the dentist, I am now about 6 hours into the K1. So here is a brief review so far for those that are interested.

The kit is as one would expect from Elecraft. Nice white box with all parts in neat organized packages: Filter Board, Band 1 and 2, RF Board, Hardware, and Wire.

The case is very similar to the K2. Well made and nice paint job. I am not sure about the screws though, they are countersunk.

The project begins with the filter board, then the front panel, then the RF board. At 6 hours I am about 1/2 way through the RF board. It is a lot easier than the K2 as there are much fewer parts. The boards are first rate.

For those of you that hate toroids, there are only 10 in this rig. With the great wire Elecraft supplies, they are a breeze. The filter board uses mostly Toko cans and goes very quickly.

The manual is as you would expect. Well written in Wayne's clear and easy to follow manner. Excellent pictures and descriptions. Only a few places that I got confused. Of course, it was probably my fault not Wayne's.

I can't tell you if it works yet, but hope to be able to give you a good update tomorrow.

For those of you that are waiting, I think this will be a short field test. I am sure it will have been worth the wait.

--

73 de AC6KW <mailto:grudin@vdb.com>
Jeff Grudin, DVM Web Add: <http://www.vdb.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Sat, 26 Aug 2000 21:23:49 -0700 (PDT)
From: Gary Slagel <gds slagel@yahoo.com>
To: qrp-l@Lehigh.EDU, Keith Doughty <kdoughty@gwtc.net>
Subject: [78169] Colorado's Mt Sherman on the air

Message-ID: <20000827042349.17746.qmail@web216.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi guys!!

I plan to be operating from the summit of one of Colorados 14ers (one of the mountain peaks above 14,000 feet) tomorrow. Hope to be at the summit of Mt Sherman, elevation 14036 feet. I plan to be on the trail by 6:00 AM, so if all goes well I should be operating sometime between the hours of 9:00 and 12:00. Probably will be on for about an hour sometime in that time range. Will operate 20 meters with an sw20, very close to 14.060.

This is my first attempt at a 'summit qrp qso'. Spent the day rigging up a vertical antenna that has a small tripod at the base so it will hold itself up. No trees up there and the ground is solid granite so there's no way to drive a stake for guys to hold up an antenna. Anyway... the antenna uses a hustler resonator with a 5' base radiator. Have a chunk of 3/4" PVC holding the thing off the ground about 4' and a little tripod built into the pvc. Didn't get a chance to try a qso with it but the mfj antenna analyzer said it worked!!!

So... if you've got time look for me. Will send out some picture QSL's either via snail mail or email.

73, Gary

PS - NO guarantee I'll be there. Soon as I see a couple clouds up at that elevation I turn tail and run before the lightning gets there :-).

=====

Gary Slagel/N0SXX
Conifer, CO 80433
gdslagel@yahoo.com
Personal Website: <http://marina.fortunecity.com/sanpedro/351>

Do You Yahoo!?

Yahoo! Mail - Free email you can access from anywhere!

<http://mail.yahoo.com/>

Date: Sun, 27 Aug 2000 01:08:47 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [78170] Neat Dipole
Message-ID: <e6.a25db38.26d9fc5f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Lay your peepers on this website for an interesting twist on multiband dipoles
<http://www.g3ycc.karoo.net/lattin.htm>

Alan KB7MBI

Date: Sun, 27 Aug 2000 00:25:08 -0500
From: "Jim Crooke" <crooke@prodigy.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78171] FS- Sierra spoken for
Message-ID: <013601c00fe7\$2b40c160\$9da69cd1@n9o0l8>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the replies. The Sierra is spoken for.

Jim WBOHQV

Date: Sun, 27 Aug 2000 01:36:35 -0400
From: Levent Sasmazel <levent@netlabs.net>
To: qrp-1@Lehigh.EDU
Subject: [78172] QRP Tuner
Message-ID: <39A8A8E3.7F6146CD@netlabs.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I need a QRP tuner any info, good bad experiences, any suggestion welcome.

Levent Sasmazel

KC2CNY/AE

Date: Sat, 26 Aug 2000 23:57:13 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-canada@lists.gpfn.sk.ca, qrp-l@lehigh.edu
Subject: [78173] QRP in ABQ/BUBBA
Message-ID: <Pine.SUN.4.10.10008262336380.22191-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This was a jam packed QRP weekend for the New Mexico gang. Drove the 100+ miles and got to the Albuquerque hamfest a bit after 9am and helped Dr. Megacycle with his QRP forum. Mostly stood around and gave him moral support. Nice crowd, 20-25 QRPers and a few interested in QRP, a couple building K2's, a couple wanting kit suggestions, etc. Nice gathering and nice forum. A real testimony to how many QRPers there are in New Mexico. I mean this whole state is barely 1.5 million people. Only famous NM QRPer missing was Tim K5OI. Wish I could remember all the NM gang that was there. Finally got to meet Bruce AA5B. I work him in every contest and always wondered who the heck he was :-). And did manage to work him on 20M and 40M an hour or so later for BUBBA.

Gary K5BI brought his truck/camper combo with R-7000 vertical and IC706 rig, fixed up so nice I thought it was a NASA van or UFO recovery unit or something. Very nice. All set up for us at the hamfest parking lot for BUBBA. Not sure if he made many contacts, but Jay WA5WHN, Jan N0QT and myself did our best to wear it out. The looming vertical antenna and CW gushing from the camper sure attracted some periodic crowds.

The bands were a bit mushy. Never did find a QSO on 15M, most on 20M, and only 2 on 40M (of course I had to QRT about 3pm). Most signals were S4-5, with a couple booming in (like W5TB and AD6GI). AA5B was fairly loud ... probably on the otherside of the hamfest parking lot for all I know ... and Dr. Megacycle KK6MC was barely above the noise from his spot at Galisteo Dam, about 20-25 miles away, but on the other side of a mountain. Over-the-hill ground wave thing or something. Temp went from 90-92 during our stint, and Jan's brand new WWV clock thingie she just bought showed 47% RH. Now how does WWV know that? Hmmm...

Enjoyed the QSO with everyone, but it did seem a lack of activity over prior years, or perhaps just rotten propagation. Still, lots of fun.

Probably only worked 20-25, but of course doing it from the hamfest attracted lots of people, so the PR for QRP was worth it as well, though a distraction. (Like I was gonna work 300 Q's anyway!)

Will try to get on again tomorrow for the CQC Summer QSO Party.

72, Paul NA5N

PS - N4BP was also pretty weak, and tried as I did, never did seem to get his attention. But still always good to hear him in there.

Date: Sun, 27 Aug 2000 02:03:58 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Cc: G-QRP Club E-mail Reflector <gqrp@onelist.com>
Subject: [78174] QRP HOMEBREWER HOT OFF THE PRESS
Message-ID: <Pine.BSF.4.21.0008270134290.80851-1000000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just got my copy of The "QRP HOMEBREWER" today. (The Journal of the New Jersey QRP Club) Vol. 2, No. 2 SPRING 2000. 60 Pages (Small Format)(5 1/2 X 8 1/2). NoGaWatt (North Georgia QRP Club) SWR-WATTMETER on Cover.

It appears to be a "Stockton Bridge". Two things I particularly Like about it is the Circuit Board Construction (Surface Mounted Wire Lead Components) and PCB "NJ Style Enclosure".

It reminds me a lot of one I did several years back, when I was getting into Surface Mount stuff from U.K.

They had some real nice 1 Watt Surface mount 300 ohm resistors. (6 Watts at 50 Ohms) and pretty accurate at that.

It mentions a "KIT" but I did not find the details. Check the "Links" for NOGAQRP. I am sure you will find something. The Author is Mike Branca, W3IRZ 2880 Camary Place Drive, Conyers, GA 30094
email: <w3irz@att.net>

Nice Cover and Nice Project. Everyone needs on in the shack..

Need a Crystal Checker? Check out page 48. I am Impressed by the Box. The lad used a POMONA BOX with a PCB Lid which I assume is the Circuit board as well as the cover. I love it. I and a certain other individual

here in Maryland have a reasonably well stocked drawer of POMONA BOXES :^)
I love it when I see one recycled into such a worthy project.

I only mentioned these two articles, as they caught my eye and are among those projects that I find are always in demand in the QRP Shop.

Are you wondering what else is in the issue? Well, a hint is the fact that the first 25 pages are about Antennas and Construction Tips.

What more could you ask for in a \$ 15.00 per year journal? DX \$ 20

To Subscribe, write a check or Money Order made payable to "George Heron, N2APB" and send it to:

George Heron, N2APB
2419 Feather Mae Court
Forest Hill, MD 21050

email: <n2apb@amsat.org>

No, This is NOT A PAID ADVERTISEMENT! I paid for my subscription and will be renewing it as well. I recommend it to all here on the list.

OBTW Antenna Articles by W4RNL & N2CX (What more can I say?)

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Locksmith Services
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Date: Sun, 27 Aug 2000 02:07:31 EDT
From: BenNW7DX@aol.com
To: qrp-l@lehigh.edu
Subject: [78175] Fox- Reminder today 2000-2200z - NW7DX
Message-ID: <51.197c32.26da0a23@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hello -

Just a quick reminder for the fox hunt this Sunday afternoon. I'll probably be around 14.055 - 14.057, dodging the QRM, calling CQ FOX. I'm sure there will be quite a few stations calling at the start of the hunt and my cw speed will be a bit on the "brisk" side, but DON'T GIVE UP if you can't hear me, or i'm going to fast. As stated in my first post, the cw speed of this hunt will take a steep decline after the first "burst" of stations. Also, I will be continuously turning the beam in all directions, in hopes to "break the RF wall" for some of you.

As a reminder, the exchange in the fox hunt is RST, QTH, NAME, and QRP-L# or power output. I will be putting the callsign of the station i'm working both before and after my exchange. For example, if K0EVZ calls me, then my exchange to him would be "K0EVZ 559 WA Ben 1892 K0EVZ BK". Seems easy enough?

I must applaud Marshall N1FN for working so many new hounds on Thursday. Hopefully all of these hounds will stick around the rest of the season! :-)

72 and I hope to work EVERYONE!!!!

Ben - NW7DX

Date: Sun, 27 Aug 2000 01:06:25 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu
Subject: [78176] FOX: Final Log, N1FN Hunt 15
Message-ID: <39A86991.7990.34E255@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Here it is with minor corrections of typos from the preliminary log-- no gained or lost qsos (whew!), voids and dupes deleted. 92 QS0s including my "fox point," from 36 SPCs.

Thanks again to everybody who worked me or tried. Good luck in the remaining hunts, and I hope to see you all again on the 3rd!

FER NW 72 DE ET
(Marshall), N1FN

--

QRP-L Summer 20M Fox Hunt Log
Hunt Number 15, 0100-0259Z 25AUG00
Fox: N1FN, ET, Aurora CO

Rig: OHR500

Ant: Gap Titan vertical, 40M doublet, low 20M dipole

TIME(Z)	STATION	RST	SPC	NAME	NUM/PWR
0100	WJ1R	559	CO	LARRY	2137
0100	K0FRP	599	CO	AL	366
0101	N4ROA	599	VA	DAN	970
0101	K5DI	579	NM	KARL	2195
0102	NW7DX	559	WA	BEN	1892
0102	KA1DDDB	559	MI	MIKE	2064
0103	N5TW	559	TX	TOM	1474
0104	N8IE	559	OH	DAN	1404
0104	N6WG	579	CA	BOB	26
0105	NQ7X	559	AZ	FLOYD	343
0106	KI0RB	599	CO	VINCE	1283
0107	NA6E	559	CA	MARY	1779
0108	WB8RCR	559	MI	JOHN	1446
0109	W5YR	559	TX	GEO	1373
0110	K0CO	559	CO	JACK	619
0110	K6VNX	579	CA	ARLEN	5W
0111	KB7WW	559	OR	ART	290
0112	AE9F	559	CA	DAN	5W
0113	AJ4Y	559	FL	PAUL	1795
0115	W7MD	449	AZ	DAMON	2190
0116	K5AAR	559	OK	DON	1512
0117	KB9BVN	559	IN	BRIAN	1540
0118	K2ZN	559	NY	AL	2234
0018	KC1FB	559	CT	JIM	29
0119	KI0II	559	CO	RON	928
0120	VA6RF	559	AB	EARL	1076
0121	WA7SPY	559	CA	GLENN	2214
0121	W6ZH	599	CA	PETE	257
0122	NV4V	559	KY	PETE	1721
0123	N6NU	559	CA	ANDY 5W	
0124	W7ILW	559	AZ	HOWARD	2010
0125	N9SE	559	IN	MARTY	1W
0126	W0HEP/QRP	599	CO	RICH	1817
0126	W0CH	559	MO	DAVE	618
0127	AF4LQ	579	KY	MIKE	1395
0128	KG4BIG	559	KY	KEN	1974
0128	NK6A	559	CA	DON	1517
0129	KK7GG	559	OR	MIKE	1705
0130	K4AVX	569	KY	JOHN	1753
0131	N7XY	569	WA	BOB	1985
0132	AB8DF	559	MI	ED	1444
0133	AA7EQ	559	AZ	BOB	2186
0134	AJ4AY	559	AL	JAY	1372

0135	KF2P	559	NY	NICK	13
0136	NK9G	559	WI	RICK	2061
0137	W9UQB	559	AZ	MIKE	413
0139	N1TP	559	FL	TOM	1317
0139	WS4S	579	TN	CONARD	993
0140	K5E0A	559	LA	WAYNE	4W
0141	K3NY	559	MD	NICK	1927
0142	AF4PS	559	FL	MAC	704
0143	K1QM	449	MA	JOEL	337
0144	W6BAB	579	CA	HARVEY	5W
0145	K50I	579	NM	TIM	73
0145	VE5VA	559	SK	PETE	46
0146	KB1ENS	559	VT	JOHN	2150
0147	K5TR	559	TX	GEO	5W
0148	NK7M	449	AZ	BOB	271
0149	VE3JC	559	ON	JOHN	744
0150	AA5UN	359	TX	MARTY	5W
0151	KU7Y	579	NV	RON	17
0153	N10DL	559	NH	ARON	1316
0154	N5IB	559	LA	JIM	1913
0155	WA8BXN	569	OH	MIKE	2230
0155	W4SI	599	NC	ROD	5W
0156	K7Q0	559	AZ	CHUCK	1
0157	N9BOR	339	IL	MIKE	50W
0158	W4EEX	559	KY	SARA	2W
0200	KB2SWY	329	NJ	IRWIN	5W
0201	N4HAY	579	NC	DICK	1008
0202	W5YW	559	LA	MIKE	5W
0203	AA8IV	559	OH	RICH	4W
0205	WD5CMA	559	LA	GLORIA	5W
0207	W3ERU	559	MD	WES	5W
0209	W4EN	559	NJ	ED	2216
0213	KB7MBI	559	WA	ALAN	1299
0215	K1MG	559	CA	MIKE	614
0216	NC90	559	IL	SKIP	913
0217	KX3X	559	PA	GREG	70W
0230	KD7CTF	579	OR	LEE	1694
0230	VE5RC	119	SK	BRUCE	886
0234	K5UP	559	OK	GLEN	21
0239	N9QIL	549	IN	KEN	1416
0242	N0RZ	559	KS	CHAS	4W
0243	AB0CD	559	CO	DICK	483
0244	KF2DA	559	NY	JIM	5W
0247	K7TQ	559	ID	RANDY	102
0250	VE5QRP	339	SK	BRUCE	5W
0257	K0EVZ	559	ND	DOC	861
0258	AE4MU	529	WA	DENNIS	5W
0259	N0UR	559	MN	JIM	799

0300 N1FN 559 CO FOX 9999

Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Sat, 26 Aug 2000 23:31:50 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [78177] AL7FS could get used to this.
Message-ID: <39A8C3E6.ADA516C8@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello again,

In addition to my five BUBBA contacts today, I was blessed with two more around 0330Z.

I worked VE7PEB, Eric, and his Ten-Tec Argo and dipole at 0325Z and then I was very surprised to work W2EUU, Bob, in Wise VA (0341Z) with his 5 watts from an Oak Hills Research Spirit and a rotatable dipole. Those of you on the east coast who have asked for an Alaska QSO, there is hope.

Any day I can work Virginia is a good day. :-)

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
QRP-L CD Ver. 3.1 available: <http://www.qsl.net/al7fs/QRP-CDver3.htm>
QRP ARCI #6754 Check out <http://www.qrparci.org/>
<http://www.qsl.net/al7fs/> <mailto:al7fs@pobox.alaska.net>

Date: Sun, 27 Aug 2000 05:54:22 +0000
From: John R Kirby <n3aaz-qrp@juno.com>
To: levent@netlabs.net, qrp-l@Lehigh.EDU
Subject: [78178] . . . QRP Tuner
Message-ID: <20000827.055543.-163583.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Congratulations . . . /AE Upgrade . . . :>))
. . . need a QRP tuner suggestion ? . . .

The >L< Network makes an outstanding QRP Tuner. . .
depending on your antenna *length*
two configurations are discussed below.

What do these terms have in common?

QRP, backpacking, efficiency, zero-weight feedline, low pass filter,
stealth, home brew, omni-directional, all band, an outstanding tuner?

Answer . . . One inductor and one capacitor, the >L< Network

Figure 1 shows a no feedline, portable, long wire antenna system I used a few years ago in a pop-up camper. This setup will match most 100 foot long wire antenna configurations from 80 through 10 meters. The coil is 21 turns of solid 18 AWG wound on a "stack" of three, Micrometals, RED (MIX 2), T94-2, powdered iron cores, with a "tap" placed every three turns (Figure 3). The capacitor is a 200 pico Farad variable. The antenna wire is a small roll of inexpensive, insulated, stranded, zip cord. You will need "alligator" clips and a tuning indicator. The earth ground "system" is just a common screwdriver and "vice-grip" (wire clamp).

Coax feedline was not required (in Figure 1) because the >L< network is connected direct between transceiver and base (or feed point) of the antenna. The feedpoint of the long wire antenna is located inside the shack (camper, tent or sleeping bag).

Since the tuning indicator can take many forms it is noteworthy to say, that if it takes too long to adjust ANY antenna tuner, the "final RF amplifier" in your transmitter may be at risk to over heating. I suggest, install a 10 dB attenuator (figure 4) between the transmitter and tuner to help protect the PA transistor during the *initial* adjustment. The "attenuator" technique is NOT a guarantee. The safest method is reduced transmitter power and short (intermittent) "key down" adjustments. The attenuator is removed for *final* adjustment and QSOs.

The >L< Network . . .

For the purpose of this discussion the term long wire antenna refers to a non resonant wire element that is either, straight line, zigzag, horizontal, vertical, or combination, but always longer than a half wave at the operating frequency, a counterpoise is not required but a good earth ground helps.

The approximate half wave length in feet can be determined by dividing 468 by the operating frequency in MHz. Example, $\text{Length(ft)} = 468 / F(\text{MHz})$, a half wave at 7.04 MHz is approximately 66.5 feet.

How does the >L< network match a low impedance transmitter to high impedance long wire? Connect the coil in series between the XCVR / ANT junction and connect the capacitor from the COIL / ANT junction to the XCVR chassis and earth ground, see figure 1.

The short version . . .

The >L< network will also match most random, non resonant, "short", low impedance antenna. The short antenna refers to a wire or rod (whip), straight line, zigzag, vertical, horizontal or combination but always less than a quarter wave at the operating frequency. Any short antenna may be a compromise, and efficiency can be poor. Always use a counterpoise for best results. When matching a highZ (50 Ohm, transmitter) to lowZ (15 Ohm, short vertical) the inductor is connected in series between source and load. The capacitor is "shunt" or parallel to the source, see Figure 2. Note, this configuration is unlike (different) the "long" example above.

Today our camper is a fifth-wheel with an eight-foot aluminum ladder rack. I just add a Radio Shack # 21-937B Rack Mount Bracket and 108 inch whip to create a very nice support AND ladder rack counterpoise, antenna system. The base of my antenna is now atop that ladder rack so a feedline is required. Feedline may assert a "length" problem and affect the impedance the transmitter looks into when there is a reactive component on the other end. Why? In this case, the load (on the end of the feedline) is a non-resonant length of wire, i.e. reactive component. Therefore, the transmitter in Figure 2 only sees 50 Ohms with a half wave, 50 Ohm feedline connected. Why? A half wave feedline "repeats" at it's INPUT what it "sees" at it's OUTPUT and the >L< network for the "short" antenna was designed to match a 50 Ohm source to a short 15 Ohm (approximate) short vertical antenna with an undefined counterpoise. Solution, adjust (re-tune) the >L< Network for each band and / or change the length of the feedline a foot or two.

Conclusions . . .

Exclude the feedline and it is noteworthy to say, the networks shown in Figures 1 and 2 match the Smith Chart yin / yang curves, i.e., there is most likely no point on the chart one or the other network will not match to 50 Ohm. Include a feedline of random length and the >L< network may not tune all the bands, however, the operative word is "random" length feed line.

Some theory and a little math . . .

The impedance presented by the end of a random wire can range over a very large playing field, from only a few Ohms to several thousand Ohms. This calculation shows just one example, a 50 Ohm source to a 377 Ohm load.

First find K

$K = \text{Square root of } ((\text{HighZ} / \text{LowZ}) - 1)$

$K = ((377 / 50) - 1)^{0.5}$

$K = 2.56$

Next find X(L), reactance of the matching coil.

$X(L) = K \text{ times LowZ}$

$X(L) = 2.56 \times 50$

$X(L) = 128 \text{ Ohm}$

Next find the matching coil value

If $X(L) = 2 \pi F L$

then $L = X(L) / 2 \pi F$

$L = 128 / (6.28 \times 7.04E6) \gg 7.040 \text{ MHz} \ll$

$L = 2.89E-6 \text{ or } (2.89 \text{ uH})$

The series inductor should be approximately 3 micro Henry

Next find X(C), reactance of the matching capacitor.

$X(C) = \text{HighZ} / K$

$X(C) = 377 / 50$

$X(C) = 7.5 \text{ Ohm}$

Next find the matching capacitor value,

if $X(C) = 1 / (2 \pi F C)$

then $C = 1 / (2 \pi F X(C))$

$C = 1 / (6.28 \times 7.04E6 \times 7.54)$

$C = 3E-9$

$(3E-9)$ is 3 nano Farad or 0.003 micro F or 3000 pico F

For a 1:1 SWR : >) make C a variable capacitor. For example, if your variable capacitor has a value from 100 pF to 1000 pF with 500 pF center, then calculate >from the example above< $(3000) - (500) = 2500 \text{ pF}$ and then parallel fixed capacitors that total approximately 2500 pF with the 1000 pF variable.

Thank you . . .

This article is the result of my response to a thread here on qrp-l when Ade, W0RSP wrote in part . . . "if you really are worried about the weight of a feedline, why use one at all? Instead put up an end fed antenna coupled to a tuner". Doug, KI6DS, read my solution to that feedline weight / bulk problem and ask if I would elaborate. Indeed an

honor, thank you Doug. To Bill, KD7S and L.B., W4RNL for their guidance and knowledgeable assistance, my pleasure, THANK YOU.

NOTE . . .

I choose that all the above remain in public domain for Amateur Radio use, *j-k*.

Comments and suggestions are welcome . . .

>>n3aaz-qrp@juno.com<<

John
N3AAZ
FM19xa

PS . . .

Must send DRAWINGS from a different e-mail account as an "attachment", but, due to all this virus stuff will "alert" you first.

The email "attachment" subject line will read. . .

** ur input (code word) es >L< Network**

An SASE will work too . . .

204 Holly St
Centreville MD 21617

72, enjoy, dit-dit

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 27 Aug 2000 08:59:21 -0300

From: Dave Marling <dbm@klis.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [78179] Re: Radial and Coax burying techniques [long]

Message-ID: <39A90299.10CCB707@klis.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

One method I've used is to make staples about 3" long out of #12 or 10

wire (covered or uncovered), stretch the radial out on the grass and "staple" it to the ground. The grass will grow over them and next year you will be hard pressed to find either the staples or the radials.

If you have to bury radials then only bury them an inch or less, just enough to cover them with dirt or grass.

I've installed radials in the winter in a field near the house and stretched them out on the snow anchoring them at both ends. Once the snow melts and the grass grows - look Ma, no wires.

Dave

VE1VQ

On the southern end of Canada's Ocean Playground

Date: Sun, 27 Aug 2000 09:50:17 -0400
From: "Rich Clemens" <clemens@wvwc.edu>
To: <w1rfi@arrl.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78180] Re: West Virginia
Message-ID: <001301c0102d\$bba88490\$dd68010a@IPAQ>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Do bear with us a bit; the local electrical system there can be pretty
> noisy, so even tho' it is rural, there is a pretty high ambient noise
level.
>
> 73,
> Ed Hare, W1RFI

Ed,

In all fairness my operating locations in West Virginia are very quiet. True the power system/computers at Jackson's Mill might not be the best environment but then hams only appear there one or two days a year. The power company for the region has been very helpful in the finding and elimination of any problems I have reported and my location has an S0 noise level everyday on every band. I just wanted to be sure those listening did not think your words applied to the entire state. And of course we are now home to the world's largest fully steerable radio telescope!

--

Rich Clemens, KB8A0B

=20

Comments: K2 @ 1W, TH7 @ 65ft, NA v10.49

Very poor condx including thunderstorms throughout the spring.
t.

=09 None forced shutdown, but horrendous QRN for entire period.

=09 Thanks to Floyd for NQ7RP Q's on three bands. =20

=09 Operated on back patio to catch the afternoon sun.

=09 73,

=09=09=09=09 , ' ' ' ,

Bob Patten, N4BP (0 0) Plantation, FL=20

-----o00o-()-o00-----=

E-Mail: n4bp@bc.seflin.org

Web Page: <http://www.qsl.net/n4bp>

Brass Pounder BBS: (954) 472-7715 =20

=09=09=09 SOC #1=09Whiners #6

Date: Sun, 27 Aug 2000 09:08:50 -0500

From: "Joe Spencer" <kk5na@quadj.com>

To: <levent@netlabs.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [78182] Re: QRP Tuner

Message-ID: <01e701c01030\$53c3f640\$06010180@joe>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I use the MFJ 971

Best tuner of it's type I have seen...out performs it big brothers.

I take it on all our "to-the-field" events. Liked it so much that
I had to get another..now have two..one stays in place and
one to go afield.

72 Joe KK5NA

----- Original Message -----

From: Levent Sasmazel <levent@netlabs.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Sunday, August 27, 2000 12:36 AM

Subject: QRP Tuner

> I need a QRP tuner any info, good bad experiences, any suggestion
> welcome.
>
> Levent Sasmazel
>
> KC2CNY/AE
>
>

Date: Sun, 27 Aug 2000 07:17:19 -0700 (PDT)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [78183] New free RTTY program - QRPP YES!
Message-ID: <20000827141720.21710.qmail@web705.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

This is my 1st real use of MMTTY. The free RTTY software by Mako, JE3HHT. It uses your computers sound card, and the wiring is exactly the same as the PSK31.

Started off Saturday with GW4, PI4, S57, S51, HA9, S50, S57, SP4, RN3, K6, DL5, K1, S57, VA3, SP9, UP5, EX2, & JA2 on 15M.
On 20M, XE1, 8P9, & S53M.

Several commented on my /QRP and asked my power. When I told them 700mW, they said "real RST is 599" !

If your computer has a sound card you GOTTA try RTTY & psk31! There is 486 version also available. English help files too.

Add some new flavors to the QRP stew.

Here's the website for free downloads.

http://www.geocities.com/mmtty_rtty/

Might be wise to join the reflector too. All your questions will be answered there.

Changed some colors, waterfall is now blue, and RX&TX screens are contrasting pastels.

Also made the text 11 instead of normal to help my eyes. I tried to use BOLD text but it wont save it. Never the less, I can see the text without reading glasses!

Oh, the XY scope is green. And it helps me spot a stn as I tune across the band. I think it reacts first.

I messed up my logging, by not clicking QSO sometimes... so didn't log everything.

My rig is Elecraft K2, OHR QRP wattmeter, antenna 15M 2 el quad at 70FT. On 20M wire half square up 20FT.

Power 700mW... except for AH6 with 400mW.

Jim KJ5TF - near Red Star, Arkansas
"All Milliwatts, All The Time"

=====

<http://www.madisoncounty.net/~kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
Join/renew membership QRP Amateur Radio Club International
<http://www.qrparci.org/arcijoin.html>
AR QRP#2 - Kingston, Arkansas 35.94N 93.47W
Private email kj5tf@madisoncounty.net

Do You Yahoo!?

Yahoo! Mail - Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Sun, 27 Aug 2000 07:12:00 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'levent@netlabs.net'" <levent@netlabs.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78184] RE: QRP Tuner
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBD08@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

Levent and List;
I have used simple, homemade L-networks in some QRP and "stealth" applications.

I like the L because it is easy to mount in a transceiver chassis or an outboard chassis. Unlike most "T" tuners, you do not have to isolate the capacitor frame from chassis ground, the cap frame is grounded. The most used configuration is when the L inductor is in series with the antenna and the capacitor shunts to ground. This is the "high impedance, low pass" configuration.

Though this was all I needed to match a wide variety of end-fed wire antennas, some builders might want to add switches to move the capacitor to the transmitter side of the tuner (low impedance, low pass) or place the inductor and cap both in series.

You might also look into the Zmatch or ZM or ZM2 tuners.

These are supposed to be easy to construct and will match unbalanced and balanced wire antennas over a wide range of bands.

Manufactured T-tuners will do the job, but some of these may be a little large for travel or field use.

There has been discussion of balun losses in typical "T + balun" commercial tuners. If you want balanced feed and low loss (some T+balun tuners have been found to have a 3 to 6 dB loss!), you might build a Zmatch or tapped link coil tuner.

If you have the room, and a QRO budget, look into automatic outdoor tuners such as the SGC >www.sgcworld.com<. These tuners go outdoors at the antenna. They will automatically tune wires, whips, doublets, loops, etc.... no SWR meters and very fast tuning.... not to be confused with the gimmicky coax-only tuners found internally in some import QRO transceivers.

72,
Jay
W6CJ

-----Original Message-----

From: Levent Sasmazel [<mailto:levent@netlabs.net>]

Sent: Saturday, August 26, 2000 10:37 PM

To: Low Power Amateur Radio Discussion

Subject: QRP Tuner

I need a QRP tuner any info, good bad experiences, any suggestion welcome.

Levent Sasmazel

KC2CNY/AE

Date: Sun, 27 Aug 2000 10:48:38 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>

To: <dbm@klis.com>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [78185] RE: Radial and Coax burying techniques [long]
Message-ID: <000401c01035\$e2d07fc0\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yup Dave, that works really well. I make my staples out of old wire coat hangers. -- Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-..

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of Dave Marling
Sent: Sunday, August 27, 2000 7:59 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Radial and Coax burying techniques [long]

One method I've used is to make staples about 3" long out of #12 or 10 wire (covered or uncovered), stretch the radial out on the grass and "staple" it to the ground. The grass will grow over them and next year you will be hard pressed to find either the staples or the radials.

If you have to bury radials then only bury them an inch or less, just enough to cover them with dirt or grass.

I've installed radials in the winter in a field near the house and stretched them out on the snow anchoring them at both ends. Once the snow melts and the grass grows - look Ma, no wires.

Dave
VE1VQ
On the southern end of Canada's Ocean Playground

Date: Sun, 27 Aug 2000 11:20:20 -0400
From: "Nick Yokanovich" <k3ny@toad.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78186] Re: Radial and Coax burying techniques
Message-ID: <003501c0103a\$51f174a0\$0dbc21a2@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A good friend, Pete AK3X, came up with this idea for burying radials: Once you have a slit in the ground in the direction you want to go, thread the antenna end of the radial through a small diameter pipe that has been curved to about a 90-degree angle. Fasten the radial to the anchor point and draw the pipe along the bottom of the slit, feeding the wire to the bottom. With your free hand you can alternatively keep pressure on the antenna side of the radial and push the slit closed as you go. He also had the idea of soldering such a piece of pipe to the blade of a curved linoleum knife, which might even cut a slit as you go, depending on density of your soil. If the curved pipe also had a slit in it the size of your wire you could fasten your radial at the antenna end and feed the wire into the tool at any point.

Nick K3NY Arnold, MD QRP-L 1927

Date: Sun, 27 Aug 2000 08:23:10 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: <qrp-l@lehigh.edu>
Subject: [78187] QRP Tuner Kit
Message-ID: <002f01c0103a\$b64078c0\$78bdc03f@DougHendricks>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Levent and the group. Another solution is the BLT, the W6JJZ design that is a kit from NorCal. The complete Z match low loss tuner kit is \$25 +\$4 S&H from NorCal. To order send check or money order made out to Doug Hendricks to:

Doug Hendricks
862 Frank Ave.
Dos Palos, CA 93620

Please enclose a self addressed mailing label.

This tuner works great from 10 - 40 meters and with a simple mod will work on long wires and unbalanced (coax fed) antennas. Very small in size. Details and photos are on the NorCal page. 72, Doug

Date: Sun, 27 Aug 2000 09:59:04 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [78188] Need another CMOS Keyer
Message-ID: <Pine.LNX.4.10.10008270956510.1091-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I need another CMOS Keyer, the one with 4 buttons. I know the tick keyer is there but I don't want to learn another darn keyer! If you have one to sell or know where to order one please let me know.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sun, 27 Aug 2000 08:57:45 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: JCoote@ci.arcadia.ca.us, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78189] RE: QRP Tuner
Message-ID: <20000827155745.19240.qmail@web3004.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Jay said "If you have the room, and a QRO budget, look into automatic outdoor tuners such as the SGC >www.sgcworld.com<. These tuners go outdoors at the antenna. They will automatically tune wires, whips, doublets, loops, etc.... no SWR meters and very fast tuning.... not to be confused with the gimmicky coax-only tuners found internally in some import QRO transceivers."

I don't have a QRO budget but instead a QRPp budget. It (the SCG) was one of my "once in a decade" purchases :-)) I have been using a SGC SG-237 SmartTuner for several months now. It has been the dream solution for multiband performance in my small yard. It had some problems originally when I first purchased it but SGC repaired it in a very timely matter. It works well at QRP levels and I use it from 80m through 6m and it is suppose to tune 160m but I don't have that band on my QRP rigs. All I have to do to change bands is flip the band switch on my rig and

send a single dit and the antenna is tuned! The antenna itself is a 50' inverted-L.

The SGC tuners are very expensive (relatively) and the LDG tuners may be a less expensive option for automatic tuners. I have no experience with the LDG tuners and I didn't purchase one because the SGC tuner seemed to be able to survive the weather a little better and has a broader range of impedances that it can load into. I wanted to put the tuner at the antenna, not at my rig.

I love to experiment with antennas and I still do but after contemplating the all band home antenna dilemma for nearly 25 years I decided to treat myself to an SGC tuner. I think I've tried everything at least once. But in all of those years of trying to figure out the "best" antenna system I learned a whole lot. Therefore, it may be best for a newcomer to experiment with something like the L-network just to get a feel for what is going on. The SCG tuner isn't going to work any better than an el cheapo homemade L-network, just more convenient for remote applications.

My SGC fed antenna certainly isn't the "best" antenna for all applications but it is the best compromise antenna in my case at home. At least until I change my mind and want something else up :-)

=====

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@arrl.net

Do You Yahoo!?
Yahoo! Mail - Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Sun, 27 Aug 2000 12:17:47 -0400
From: "Scott Hotchkiss" <w4pj@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78190] Re: Radial and Coax burying techniques
Message-ID: <001201c01042\$572e1e20\$8b51d6d1@w4pj>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Use an electricians snake 'fish-tape'.
Start at the far end and thread it under the top of the turf.
Mount the spool of wire on a piece of broomstick or
other piece of pipe in a cardboard box so that it can unspool.
Attach the radial wire to the fish-tape and pull it through the turf.
If you have a nice yard with healthy sod and don't want scars.
de W4PJ
Scott R. Hotchkiss
Fort Lauderdale, Florida

Date: Sun, 27 Aug 2000 16:59:27 +0100
From: "David Hurley,n2zhy" <n2zhy@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [78191] Basil has left the building!
Message-ID: <39A93ADF.69021886@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ok, it's safe! Come back home to NJQRP, ... we miss you.

David Hurley,n2zhy
Princeton,NJ

Date: Sun, 27 Aug 2000 09:21:44 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: w6abc@yahoo.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78192] AL7FS: New Ham in Alaska response (long)
Message-ID: <39A94E28.8A236026@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Greetings from Alaska,

Let me start out this message with a small bit of the message from Jack:

ABCQRP wrote:

- > Hi All,
- > I think this is a great opportunity to show what the
- > QRP community is all about....
- > I propose that if 20 of us got into the mindset of
- > just stuffing \$5 into an envelope and send it off to
- > Jim to fund a radio for this fellow what a show of
- > goodwill and fraternity it would be....
- > Let me be the first to donate...
- > 72/73, Jack, W6ABC

Those of you who have known me for the more than four or five years I have been on this list are aware that I am seldom at a loss for words. This time I was stopped short with the generous offer put forth by Jack followed by emails from several handfults of hams. Jack, I didn't know what to say so I decided I had to think on it a bit.

Here is what finally happened. We can all be justifiably proud of our QRP community with its sky-high spirit of help to new hams that show serious interest.

First, one of our group donated an Oak Hills Research OHR100A for 15 meters with the proviso that if the new ham ever tired of the radio it must be passed on to a new ham and not sold. This was readily agreed to.

Second, another QRP-L resident offer to sell me a NC-20 with anodized case for such a low price that I had to insist that he take joint credit for the gift. From his letter this week:

"I posted the rig to Teresa today, along with a power cord, Whiterook Key and a small set of headphones. The package included the manual (two copies) and all reprints from the QRP-L on hints, troubleshooting and mods. I suggested to Teresa that she start at the beginning of the instructions and verify that I had the correct part in the correct location without solder bridges or cold solder joints... then finish the six toroids. I told her that you would help her with troubleshooting and alignment."

So the cat is out of the bag a little here. The new QRPer is KLOWW, Teresa Nunes, from up in Wasilla, Alaska. She is the mother of a beautiful 3 year old daughter Elizabeth, and her husband Larry is a chef. Teresa is the Senior Tech at one of the largest internet service

providers in Anchorage. Teresa can be reached at <mailto:KL0WW@arrl.net>

And finally, a third ham on the list has offer to send Teresa a nearly new Bencher Paddle. He wouldn't even let me pay for the postage.

This all came together in a beautiful way. Alaska hams do best with 20 and 15 meters. Teresa and Larry do a lot of subsistence hunting and fishing and Teresa plans to take the rig out to the wilderness with her and operate QRP. She will have the smaller and lighter Whiterook for travel and now the Bencher paddle for good solid operating from the home location. It doesn't get much better than this.

As to the dollar donations, it will not be needed in this case but I am sure you will all be ready to step in the next time an appropriate situation arises. Thank you for your offers.

All I can say is thank you to all who offered support. There were many of you...some online on QRP-L and some private. To all, you embody the spirit of ham radio are are the hope for our future. I salute you.

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
QRP-L CD Ver. 3.1 available: <http://www.qsl.net/al7fs/QRP-CDver3.htm>
QRP ARCI #6754 Check out <http://www.qrparci.org/>
<http://www.qsl.net/al7fs/> <mailto:al7fs@pobox.alaska.net>

Date: Sun, 27 Aug 2000 10:26:58 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@Lehigh.EDU>
Subject: [78193] Re: Radial and Coax burying techniques [long]
Message-ID: <008b01c0104c\$0187a680\$41fcb3d1@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Andy

>From what I've read here and elsewhere, once you bury radials they lose any sense of resonance. If the 25 ft length is needed for some kind of resonance, it will be gone when you bury the radials. If the radials are nonresonant anyway, as in a simple counterpoise, then burying may not be a problem. You may have to try it and see what happens.

73, Bob N6WG

Date: Sun, 27 Aug 2000 12:59:12 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78194] Re: Low Noise Op Amps
Message-ID: <39A948DF.F9F448D6@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I don't have much experience specing out op-amps. What does nV/rHz mean? nanovolts per hertz? Guess the lower the number the better?

Tnx

Henry

Date: Sun, 27 Aug 2000 10:38:31 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: <qrp-l@Lehigh.EDU>
Subject: [78195] Re: Need another CMOS Keyer
Message-ID: <003901c0104d\$9e5b8ca0\$78bdc03f@DougHendricks>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl, you can get a CMOS III kit from Marshall Em at Morse Express. Don't have the URL here but you can get it off the NorCal page at www.fix.net/norcal.html

I recommend Marshall rather than the main company because you can talk to Marshall, and there is no way that I know of to talk to the other guys. It is a great contest keyer in my opinion. JayBob Bromley built mine and gave it to me as a gift, and it is a treasured item in my shack. 72, Doug

Date: Sun, 27 Aug 2000 10:43:33 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: w2agn@pobox.com
Cc: qrp-l@lehigh.edu

Subject: [78196] Re: BUBBA: Fun
Message-ID: <200008271738.KAA19183@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:23 PM 8/26/2000 -0400, you wrote:

>Bubba was fun, although not a lot of QSOs. Only worked 18 Contacts in 14 SPCs.

>But thrilled to be called and given a 599 by F5REF, followed by a Q with >G4HWK/QRP. Both were kind enough to give me temperatures.

>

>Hottest had to be NK7M who gave me 111F !!! Must have been operating from his >toaster oven! Best we could do here was 84 degrees, but only a lousy 56 deg >dewpoint, which is very unusual for Southern NJ. Got a bit of sun, as moved the

>rig into the sun to up the temp :-)

>

>Ran the Sierra, and the NC40A on 40M, but most everyone on 40 was in the Ohio >QSO party. (How come nobody was in the NJ QSO party????)

>

>Thanks to the SQrpions!

Yup, it were hot! The xyl and I went down to Picacho Peak State Park, and set up at the bottom of the peak. I couldn't believe the temps! At one point, about 1:15 or so, it went up to 114 F. No rain, but the dew point was 50+, so it was a bit muggy. Not too good conditions, only managed 14 contacts, all on 20M, and most of them down in the mud. But it was fun. Next time, I'll go up to the hills where it's cool....with condx like that there aren't gonna be a lot of q's anyway :^).

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255

<http://www.extremezone.com/~nk7m>

Date: Sun, 27 Aug 2000 11:55:52 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "fpqrp" <fpqrp@egroups.com>, "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [78197] Help with part ID
Message-ID: <00ed01c01050\$0d5b76e0\$598611d8@zephyr>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks:

I have what I believe to be a resetable fuse. It is a rectangular device, yellow in color, radial leads:

```
+-----+
|       |
|       | body
|       |
+-----+
)       (
|       | leads
|       |
```

Body markings:

Side One: JQ8X, Mexico

Side Two: 30V, U110

Ideas?

TNX for the help.

72/3 Rod, N0RC -- Fort Collins, CO

Date: Sun, 27 Aug 2000 14:22:03 -0400
From: david fouchey <dafouchey@home.com>
To: dbm@klis.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78198] Re: Radial and Coax burying techniques [long]
Message-ID: <39A95C4B.88D7D5E2@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have used this method as well, I generally cut the grass VERY short first, then put down the radials. For staple I find hard drawn wire much the best, with copper weld coming in second. Now if I could just scrounge up another 5000' roll of #9 bare hard drawn....

73's
Dave

Dave Marling wrote:

Date: Sun, 27 Aug 2000 14:33:25 -0400 (EDT)
From: "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
To: "qrp-L@Lehigh.EDU" <qrp-L@Lehigh.EDU>
Subject: [78199] OT - QRP ops and Submarines
Message-ID: <Pine.BSI.4.05L.10008271431030.8537-100000@vh1.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Questions or text should be sent direct, no posted to the list.

http://www.baltimoremd.com/	Baltimore's Home Page
http://www.baltimorehon.com	Home of the Baltimore Lexicon
http://www.min.net/~thom/	QRP and Drake Mail List Pages

Date: Sun, 27 Aug 2000 10:36:00 -0800
From: =?iso-8859-1?Q?=22Teresa_Nunes=2C_KL=D8WW=22?= <kl0www@arrl.net>
To: qrp-1@Lehigh.EDU
Subject: [78200] Thanks to Everyone!
Message-ID: <4.3.0.20000827102009.00aeff00@pop.alaska.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi everyone,

Now the cat is out of the bag, I feel the need to offer my sincere thanks to everyone on this list and to introduce myself. :) Never have I seen such a great bunch of people as I have found in this hobby. Everywhere I go, I find folks who are happy to talk and help me get started. I have pretty-much decided to get involved in QRP and with emergency communications in my local community (through ARES, mostly).

Thank you all so much for all that you have done for me! <hugs>

I want to learn to set up my own equipment myself, but I very much enjoy all the time spent talking, working with hams, and just generally being social. I am enlisting a friend to help me build my first antenna, and I hope to be able to build my own without help very soon. :) My first project is to install a ground rod before the ground freezes. There is snow in the mountains and frost on the ground now, so I must get this done soon. I wonder how many boulders I'll have to excavate in order to install the ground rod. If you like, I can give you updates on my station's progress.

Meanwhile, I am getting ready to take the cw test. I've passed the General written, and now must get the morse code test out of the way.

->Teresa

Date: Sun, 27 Aug 2000 13:47:03 -0500
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <n6wg@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78201] Re: Radial and Coax burying techniques [long]
Message-ID: <007b01c01057\$343101c0\$0100a8c0@dandooley>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I don't think burying the radials is what will kill the resonance. Just their proximity to ground. So once they're on the ground, tuned length is of no real relevance. Someone correct me if I'm wrong on that one.

To be effective, you will need a WHOLE LOT of them on, or under the ground.

That's one of the reason mine are elevated. The base of the antenna is about 17 or so feet up and the radials fan out from there. At their lowest points (at the ends of some), they are still 10 to 12 feet up. And, they are tuned to resonance.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
e-mail to: dandoooley@pipeline.com
SOC #198, FPQRP # -104
May Goddes love blest ye alle
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: "Bob Tellefsen" <n6wg@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, August 27, 2000 12:26 PM
Subject: Re: Radial and Coax burying techniques [long]

> Andy
> >From what I've read here and elsewhere, once you bury radials they lose any
> sense of resonance. If the 25 ft length is needed for some kind of
> resonance, it will be gone when you bury the radials. If the radials are
> nonresonant anyway, as in a simple counterpoise, then burying may not be a
> problem. You may have to try it and see what happens.
> 73, Bob N6WG
>

Date: Sun, 27 Aug 2000 12:13:46 -0700 (PDT)
From: "Robert P. Okas" <vintage@best.com>
To: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
Cc: qrp-1@lehigh.edu
Subject: [78202] Noise 101 Was Re: Low Noise Op Amps (long)
Message-ID: <Pine.BSF.4.21.0008271056010.18767-100000@shell114.ba.best.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Henry,

You're correct in assuming that the lower the noise spec, the better. The noise voltage is really the equivalent noise referred to the input of the op amp. You can think of it as a noise generator connected in series with your signal. Why the $1/\sqrt{\text{Hz}}$? The short answer is that noise is statistical and it is integrated over the bandwidth of interest. It is normalized to a 1Hz bandwidth so you can easily determine the amount of noise contributed by the opamp in your bandwidth of interest.

To make use of the noise spec, you first need to know your bandwidth. Calculate the square root of the bandwidth and multiply the noise factor by this number. Notice I said "factor." When dealing with opamps, there is a spec for noise voltage and one for noise current. Noise voltage dominates the typical circuits we deal with. When dealing with noise voltages, the product of the noise voltage and $\sqrt{\text{bandwidth}}$ results in the voltage a noise generator would produce at the input of your opamp. Here's an example.

Let's say we're using the hifi audio bandwidth of 20Hz - 20KHz. Unless the opamp circuit is configured as an active filter, this is a valid assumption. We could calculate the bandwidth as 20KHz - 20Hz, and be quite correct. However, the engineering assumption is to ignore the 20Hz, since it contributes very little to the final outcome. The square root of 20KHz is about 141. Assume the noise voltage 4 nV/ $\sqrt{\text{Hz}}$ (a fairly quiet device). The equivalent input noise is $141 * 4 \text{ nV} = 0.56 \text{ uV}$. Notice that the $\sqrt{\text{Hz}}$ units cancel, leaving us with just a voltage units.

This noise voltage is called "input referred" because you can assume that it appears at the input of your opamp circuit. Whatever you do to the normal signals in which you're interested, you do to the noise. So, if you are trying to amplify a weak signal with an opamp that has a gain of 100, you are boosting the self-generated noise by that amount. In high-level circuits, ones that deal with signals that are measured in volts, you can conveniently ignore the one-half microvolt of noise introduced by the opamp in our example.

Suppose you are trying to amplify a 1 mV signal. The signal to noise ratio is: $20 * \log(1\text{mV}/.56\text{uV}) = 65 \text{ dB}$. This is still very good for radio applications. For critical audio applications, this is a mediocre value. Suppose the opamp's noise voltage is 11 nV/ $\sqrt{\text{Hz}}$. The equivalent noise then becomes $141 * 11 \text{ nV} = 1.55 \text{ uV}$ and the SNR degrades to 56dB, which still isn't too bad.

Where noise does come into play is in cascaded stages, where the gains

multiply. You need a quiet opamp at the head of the chain, because it's noise will typically dominate all the other noise sources. Since noise is stochastic, or random, you don't add up the noise voltages linearly. Instead, total system noise is calculated by the "square root of the sum of the squares" method. This is a useful tool for predicting how quiet or noisy the amplifier chain will be. A sometimes faster way is to breadboard the design and measure it. ;-}

I hope you find this useful.

73,
Bob - W3CD

On Sun, 27 Aug 2000, Henry Freedenberg wrote:

> I don't have much experience specing out op-amps. What does nV/rtHz
> mean? nanovolts per ?hertz? Guess the lower the number the better?
>
> Tnx
>
> Henry
>
>
>

Date: Sun, 27 Aug 2000 19:24:04 +0300
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: UCCINC@aol.com, tentec@qth.net, elecraft@qth.net, QRP-L <QRP-L@lehigh.edu>
Subject: [78203] Re: [Elecraft] Re: [TenTec] RFI from GSM phone into 705 mike?
Message-ID: <39A940A4.97E6C2EE@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

UCCINC@aol.com wrote:
> What's a GSM phone? Cell phone? Cordless phone?
> Bob WB2DHK

Bob,

A GSM phone is a cell phone according to the GSM system. They work on 900 MHz and the more modern dual band ones have something like 1800 MHz, too. The modulation is AM with digital pulses, very nasty. GSM phones

cause ugly sounding RFI to a lot of consumer electronics, which is probably fair, hi, since it makes people familiar with RFI issues. Their use is prohibited in many hospitals and I even read that gas stations also don't allow them. Nowadays cell phones disturb most public functions with their 'melodious' ringing. Many are made by Nokia, which is a Finnish based company that used to make rubber boots. Since 'everybody' - most 10 yr. old kids included - in Finland nowadays has a mobile GSM phone, high phone bills run up by the use of this form of 'communication' is thought to have caused a recent slump in consumer spending in retail shops.

Because of your question I've come to realize that the USA has a somewhat different cell phone system, and I don't know if it shares the nasty RFI properties with GSM phones.

73,

--

Arjen Raateland
OH2ZAZ

AX.25: OH2ZAZ@OH2RBI.FIN.EU

Date: Sun, 27 Aug 2000 12:47:58 -0700
From: Bob Nielsen <nielsen@oz.net>
To: qrp-l@lehigh.edu
Subject: [78204] Re: [Elecraft] Re: [TenTec] RFI from GSM phone into 705 mike?
Message-ID: <20000827124758.A23072@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

At least one U.S. company, VoiceStream, uses GSM technology (one of the reasons that Deutsche Telekom is taking them over). I have one (Nokia) but haven't yet checked it for RFI.

Bob, N7XY

On Sun, Aug 27, 2000 at 07:24:04PM +0300, Arjen Raateland wrote:
> UCCINC@aol.com wrote:
> > What's a GSM phone? Cell phone? Cordless phone?
> > Bob WB2DHK
>
> Bob,
>
> A GSM phone is a cell phone according to the GSM system. They work on
> 900 MHz and the more modern dual band ones have something like 1800 MHz,
> too. The modulation is AM with digital pulses, very nasty. GSM phones

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> use is prohibited in many hospitals and I even read that gas stations
> also don't allow them. Nowadays cell phones disturb most public
> functions with their 'melodious' ringing. Many are made by Nokia, which
> is a Finnish based company that used to make rubber boots. Since
> 'everybody' - most 10 yr. old kids included - in Finland nowadays has a
> mobile GSM phone, high phone bills run up by the use of this form of
> 'communication' is thought to have caused a recent slump in consumer
> spending in retail shops.

>
> Because of your question I've come to realize that the USA has a
> somewhat different cell phone system, and I don't know if it shares the
> nasty RFI properties with GSM phones.

>
> 73,
> --
> Arjen Raateland
> OH2ZAZ
>
> AX.25: OH2ZAZ@OH2RBI.FIN.EU

--

Bob Nielsen, N7XY
Bainbridge Island, WA

nielsen@oz.net
<http://www.oz.net/~nielsen>

Date: Sun, 27 Aug 2000 19:53:09 GMT
From: "Michael Herman" <kc9nf@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [78205] IC720a owners/tech manual
Message-ID: <LAW2-F123cew8k69RKL000000c2@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Does anyone have a manual owners or tech for a Icom 720a?

Mike herman n9nf

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Share information about yourself, create your own public profile at
<http://profiles.msn.com>.

Date: Sun, 27 Aug 2000 16:18:36 -0400
From: "C L Barnett" <KB4CUQ@worldnet.att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [78206] Re; SMK 1
Message-ID: <008901c01064\$1b7684e0\$c91f4d0c@worldnet.worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Would anyone on the list happen to have an SMK 1 assembled
that they would consider selling. If so I would be interested.
Please reply directly.

Date: Sun, 27 Aug 2000 16:17:02 -0400
From: "Ken Simpson" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [78207] Misc items FS
Message-ID: <01d901c01063\$c3fcb860\$635e9fea9@kensimps>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For Sale:

TenTec Model 1170 DC circuit breaker for
protection when operating from 13 V DC.
This is the "fast acting" breaker, and
is made for use with the Century 21 / 22.
Made to carry 5 amps. \$18

Nye Viking "Master Key" 330-001
This is the "top of the line" straight key.
It includes cord and connector, and can be
seen at <http://www.morsex.com/nye/index.htm>
New regular price is \$71.95
This one is in great shape, in the box
for only \$ 50.

Midland 23-128 SWR bridge. Has SO-239
connectors on each end. Rated for HF, but
seems to be quite accurate thru 2 meters.
Excellent condition. \$ 20

Olson SWR bridge. Seems to be the same as above, but has Olson label instead of Midland. Great shape. \$ 20

Ten-Tec 229 antenna tuner. Has roller inductor, so will match almost any antenna, 160 through 10 meters. Good for full legal power. Also has wattmeter, SWR bridge, and a 4 position antenna switch. Great condition. With manual for \$ 225.

Also, I have touch-tone microphone available. It has a touch-tone pad on the back, with standard hand mic in the front. Presently has a 4 pin mic connector on it, but that can easily be changed. \$ 40

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-Mail to W8EK@fdt.net or W8EK@juno.com
Voice Phone (352) 732-8400

Date: Sun, 27 Aug 2000 14:37:04 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>, <elecra@qth.net>, "fpqrp" <fpqrp@egroups.com>
Subject: [78208] WTT: resistor networks
Message-ID: <016c01c01066\$93442840\$598611d8@zephyr>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks I have about 750, 4 pin 1k ohm R networks:

+--+--+
c R R R
| | | |

R = 1k ohm
c = common

I very carefully evaluated my lifetime needs and I figure I have about 703 too many of these R networks. ;-)

Want to trade for some? Things I'd like:

2n2222a's you can never have too many 2n2222's ;-)
small trimmers.
XSTRs suitable for PA's
NE612's
FETS J310's, 2N5179's
XTALS suitable for filters or rockbound rigs
???? what do you have that you would like to trade?

Surely we can work out a fair exchange ratio.

72/3 Rod, N0RC -- Fort Collins, CO

Date: Sun, 27 Aug 2000 13:15:55 EDT
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [78209] PSK31 & Baycom BP-2M ?
Message-ID: <20000827.164952.4479.0.kc8aon@juno.com>

Gang,

Anyone on the list know of any psk31 software that will work with the Baycom multimode ? I have an old 286 laptop that I would like to use with my Radio Shack HTX-10 as a portable psk rig. I also would like to hear about any software that allows APRS with the little Baycom unit !

73...Rick McKee KC8AON { CW lives as long as I do ! }
Willow Wood, Ohio "oo's"
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33

TriState BrassPounders # 1

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 27 Aug 2000 14:58:12 -0600

From: "Rod, N0RC" <n0rc@qsl.net>

To: "qrp-1" <qrp-1@Lehigh.EDU>

Subject: [78210] FOX one call does it all!

Message-ID: <018a01c01069\$9f623d80\$598611d8@zephyr>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

WOW!

Started looking for Ben around 2040 found him at about 2044. He finished up a QSO and I dropped my call _one time_, up a tad from his Freq! BOOMPH he came back and another pelt for me. Thanks Ben. Then shutdown, heard some thunder. :-0

For the new Fox hunters: I switch the RIT off, and tuned in Ben. Then, I tuned up until I just lost him. With my rigs filters that would be about 500Hz up. Then I used RIT to tune back down to hear Ben. Took longer to set up than to work him!

Today I was at home using my NC20, 5W into attic dipole. You know this NC20 has really great "staying power". This weekend I finished up various mods from the Winter 1999 QRPP--made a great rig even better. Thanks NorCal for a really great rig!

72/3 Rod, N0RC -- Fort Collins, CO

Date: Sun, 27 Aug 2000 17:14:36 -0400 (EDT)

From: "John L. Sielke" <w2agn@pobox.com>

To: qrp-1@lehigh.edu

Subject: [78211] FOX: Calling CQ

Message-ID: <XFMail.000827171426.John L. Sielke w2agn@pobox.com>>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

I couldn't believe the lack of the usual pileup. Bob has excellent signal here and is practically begging for contacts. I won't tell his freq, but it is REAL close to the QRP calling freq.

/ \ / \ / \ / \ / \ John L. Sielke w2agn@pobox.com w2agn@qsl.net
(W | 2 | A | G | N) NJ Grid:FM29LN <http://www.qsl.net/w2agn>
 _ / _ / _ / _ / _ / NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
X-N4JS, W4MPC, W7JEF, K3HLU G-QRP #9544 NorCal CQC AKQRP QCWA FISTS #2781
fpQRP #121 SOC #390 Elecraft K2 #00023

Date: Sun, 27 Aug 2000 17:39:42 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:w2agn@pobox.com" <w2agn@pobox.com>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group
<QRP-L@Lehigh.edu>
Subject: [78212] FOX: Calling CQ 14057.46
Message-ID: <200008271740_MC2-B13A-C564@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Gang:

Ben Da FOX NW7DX is calling almost a continuous CQ FOX right now. He is =
on
14057.46 on the K2 here. Go get him, everyone.

72/73,

--W.D. (Doc) Lindsey
DSBF
PO Box 6028
Bismarck, ND 58506
(Shipping =3D DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)
E-Mail =3D K0EVZ@arrl.net

Date: Sun, 27 Aug 2000 16:34:24 -0500
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [78213] FOX: The Drought Abates...
Message-ID: <200008272134.AA00267@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain
Mime-Version: 1.0 (NeXT Mail 4.2mach_patches v148.2)

Got Ben just a bit ago after several tries. QSB deluxe here. He'd be S5-S7 during the start of his CQ, and drop right into the noise. Had 3 partials where he got bits of my call, but the conditions wouldn't allow a full exchange. Finally the band held up sufficiently to complete the exchange. So, after four shutouts in a row, the mighty milliwatts again come through! :-)

72/73,

Todd, AG0T
QRP-L #2211, ND

Date: Sun, 27 Aug 2000 14:55:18 -0700
From: "Jason Milldrum" <thecabal@mindspring.com>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [78214] A Couple of Questions
Message-ID: <NEBBKHNMEDODBDLOKEPJGEJCCDAA.thecabal@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi group,

First: Can any of you EE types tell me how I can measure the unknown capacitance of an air variable capacitor? I have some ideas but I'm not sure at all whether I'm on the right track at all.

Second: Does anyone know of a good way to use 450-ohm ladderline to make a good portable antenna, like a folded dipole perhaps. Or something along those lines that would be light, compactable, easy to build, and have reasonable performance.

Thanks,
Jason

Jason Milldrum, KD7JKI
Salem, Oregon, USA
ARRL | QRP-L #2209 | FPQRP #118 | hamradiochat
Web: <http://thecabal.home.mindspring.com>

Join the hamradiochat discussion group:
<http://thecabal.home.mindspring.com/kd7jki/hamradiochat/>

Date: Sun, 27 Aug 2000 14:54:31 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [78215] Fox bagged in LA
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBD0C@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

Bagged the fox here in La La land. He's 57 in Southern CA and still on
14057, taunting the hounds.

73
Jay
W6CJ

Date: Sun, 27 Aug 2000 18:02:22 -0400
From: John Wagner <john@neknetwork.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78216] FOX- foxfree here in the NE
Message-ID: <39A98FEE.86DB75BD@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Heard the pileup at the begining, but no fox. Just heard Ben briefly a
minute ago, but there were way too many QSO's going on around him to get
an exchange.

Bummer! Had a fun two hours on the air though.

Until the next hunt... 73,

John, KB1ENS

--

John Wagner - john@neknetwork.com

Web page: <http://www.neknetwork.com>

Personal Web page: <http://www.together.net/~jwag>

Date: Sun, 27 Aug 2000 16:14:28 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: "John L. Sielke" <w2agn@pobox.com>
Cc: qrp-1 <qrp-1@lehigh.edu>
Subject: [78217] W2AGN Also Notable BubbaContact
Message-ID: <B5CEEEE3.23E0%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

The longest contact of Bubba from KK6MC/5 went to W2AGN, NJ. I omitted his call in my post yesterday for reasons unknown to me other than I did not have my log hand. He worked hard with lots of repeats to get me, so he deserves some note.

I apparently had an easier time hearing people than they did hearing me. I expect that my portable antenna needs to be beefed up, although I prefer to think I have a super quite portable location :^). - Dr. Megacycle KK6MC.

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 27 Aug 2000 17:38:19 -0500
From: Lew Paceley <lew@paceley.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78218] FOX - (Long) Saved by the 17 foot high dipole...
Message-ID: <011701c01077\$80153500\$0332a8c0@roland.swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

After getting shutout last week into CO (again, both WJ1R and N1FN now) I confirmed I was in serious need of an antenna pointed in a different direction. Since I haven't settled on my "ultimate" NW/SE antenna for our

house, I constructed an "emergency" (break glass in case of FOX) 20m dipole this last week.

As Murphy would have it I didn't have it up today when the hunt began. Listened for Ben...there he was 229 and the slow QSB fade we get here on 20m in the afternoon. There was no way I'd get him off the end of my G5RV/2. The end was pointing right at him. Thinking hard for a few seconds...I broke the glass. Whipping out 30' of RG58, I quickly soldered PL259s on each end. Test for continuity and no shorts...it's a go. Into my small backpack goes a couple nails, a hammer and the dipole. I climb onto the garage roof and shinny to one end along the peak...it's 101 here in Dallas so the roof is 120F+ ...and my backside feels like it's on fire!! I pound a nail in the garage roof peak, tie the dipole on and toss it off the roof. I quickly get off the roof, attach the coax to the center insulator and use the fish tape to bring the other end up to the second floor balcony. Tie it off on the roof eave...disconnect the G5RV/2 and connect the dipole. Dash down to the shack. I'm perspiring so heavily my log is soaked where my arm touches it..but there he is!! Tune up quickly (yes - off frequency :-)). About a 44N and still QSB. 2217Z: Ben picks me out on the second call and the QSB comes back...RST??...NR?? Ok, my turn. My sending is even more ragged than usual, I'm both excited and out of breath. Stop, deep breath. And then it went fine - pelt in the bag.

My kids now think I'm certifiabile. My XYL knows I am. Sometimes a little extra effort makes all the difference.

Thank you so much Ben for being a great fox today... and for the antenna adventure.

72/73,
Lew
N5ZE

PS - Tom/N1TP, I heard you nail the fox in the closing seconds...glad you're back on the air!

End of QRP-L Digest 1926

